BMXDDI3232

discrete input module, Modicon X80, 32 inputs, 12 or 24V DC positive or negative





Main

Range of product	Modicon X80	
Product or component type	Discrete input module	
Discrete input number	32	
Discrete input type	Isolated	
Input type	Current sink (logic positive) Current source (logic negative)	
Discrete input voltage	12 V DC, discrete input logic: positive or negative 24 V DC, discrete input logic: positive or negative	
Discrete input current	3.3 mA	

Complementary

Complementary		
Input compatibility	With 2-wire/3-wire proximity sensors conforming to IEC 61131-2 type 3	
Sensor power supply	1930 V	
Voltage state 1 guaranteed	>= 10 V <= -10 V	
Current state 1 guaranteed	>= 2 mA	
Voltage state 0 guaranteed	<= 5 V >= -5 V	
Current state 0 guaranteed	<= 1.5 mA	
Input impedance	7270 Ohm	
Insulation resistance	> 10 MOhm 500 V DC	
Power dissipation in W	4.7 W	
DC typical response time	4 ms	
DC maximum response time	7 ms	
Paralleling of outputs	Yes	
Typical current consumption	100 mA at 3.3 V DC	
MTBF reliability	2200000 H	
Protection type	1 external fuse per group of channel0.5 A fast blow	
Voltage detection threshold	< 14 V DC sensor fault > 19 V DC sensor OK	
Status LED	1 LED (green) module operating (RUN) 1 LED per channel (green) channel diagnostic 1 LED (red) module error (ERR) 1 LED (red) module I/O	
Net weight	0.137 kg	

Environment

IP degree of protection IP20		
Directives 2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility		
Dielectric strength	1500 V AC at 50/60 Hz 1 minute, primary/secondary 1500 V AC at 50/60 Hz 1 minute, between group of channels	
Vibration resistance	3 gn	
Shock resistance	30 gn	
Ambient air temperature for storage	-4085 °C	
mbient air temperature for operation 060 °C		

Relative humidity	595 % at -2570 °C without condensation
Operating altitude	02000 m 20005000 m with derating factor

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.6 cm
Package 1 Width	17.9 cm
Package 1 Length	26.0 cm
Package 1 Weight	320.0 g
Unit Type of Package 2	S03
Number of Units in Package 2	10
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	4.04 kg
Unit Type of Package 3	P06
Number of Units in Package 3	80
Package 3 Height	80.0 cm
Package 3 Width	60.0 cm
Package 3 Length	80.0 cm
Package 3 Weight	36.0 kg

Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	☑ REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
Mercury free	Yes	
China RoHS Regulation	€ China RoHS Declaration	
RoHS exemption information	₫Yes	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End Of Life Information	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	

Contractual warranty

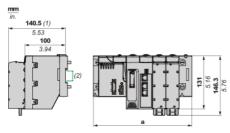
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Product data sheet Dimensions Drawings

BMXDDI3232

Modules Mounted on Racks

Dimensions



- (1) With removable terminal block (cage, screw or spring).
- (2) On AM1 ED rail: 35 mm wide, 15 mm deep.

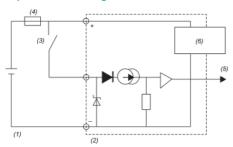
Rack references	a in mm	a in in.
BMXXBP0400 and BMXXBP0400H	242.4	9.54
BMXXBP0600 and BMXXBP0600H	307.6	12.11
BMXXBP0800 and BMXXBP0800H	372.8	14.68
BMXXBP1200and BMXXBP1200H	503.2	19.81
BMEXBP0400 and BMEXBP0400H	242.4	9.54
BMEXBP0800 and BMEXBP0800H	372.8	14.68
BMEXBP1200 and BMEXBP1200H	503.2	19.81
BMEXBP0602 and BMEXBP0602H	375.8	14.8
BMEXBP1002 and BMEXBP1002H	506.2	19.93

Product data sheet Connections and Schema

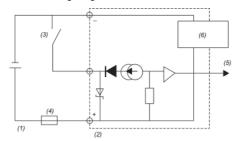
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Connecting the Module

Input Circuit Diagram

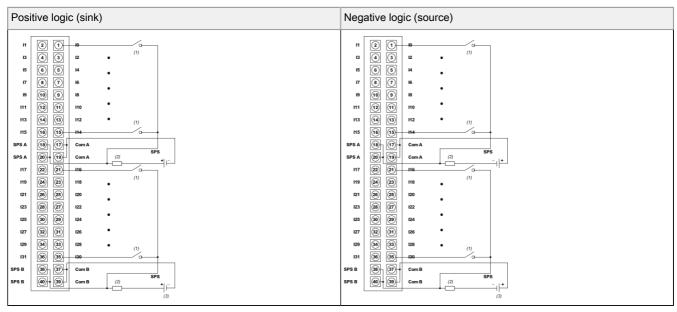


The following diagram shows the circuit of a direct current input (negative logic).



- (1) Entry
- (2) Module
- (3) Sensor
- (4) Fuse
- (5) Input % I(0...n)
- (6) Sensor supply and voltage monitoring

Module Connection



- (1) Sensor
- (2) Fuse: fast-blow fuse of 0.5A
- (3) 12 VDC/24 VDC

SPS: Sensor power supply